

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

Geometry Seminar

Combinatorics of Schubert cells and Poisson geometry

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Abstract

The study of Schubert cells is central in combinatorics and representation theory of simple algebraic groups. The homology classes of closures of intersections of dual Schubert cells carry information about the ring structure of the homology groups of flag varieties (Schubert calculus). The geometry of the closures of Schubert cells is relevant for explicit constructions of representations of simple groups. In this talk we will discuss relations between these combinatorial/algebraic objects and Poisson geometry, and implications in both directions. This is a joint work with K.R. Goodearl.

Date:	September 2, 2005 (Friday)
Time:	3:00 – 4:00pm
Place:	Room 207, Run Run Shaw Building

All are welcome